B5512 Control Panel

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BOSCH
Invented for life

- Supports up to 48 points using a combination of hardwired or wireless points for installation flexibility and up to 4 areas with perimeter and interior control
- On-board Ethernet port for Conettix IP alarm communication and remote programming, compatible with modern IP networks including IPv6/ IPv4, Auto-IP, and Universal Plug and Play
- Installer-friendly features including on-board USB for easy on-site RPS programming, plus plug-in PSTN and Cellular communication modules for simple installation and future proof upgrades
- Notifications with email and text messaging, and the Remote Security Control app for Android and iOS mobile devices
- Programmable keypad shortcuts, situation sensitive on-screen help, and a bilingual user interface make system operation simple and easy

The B5512 Control Panel integrates intrusion and residential fire, providing one simple user interface for both systems. The B5512 provides up to 48 individually identified points that can be split into 4 areas. The control panel includes a built-in Ethernet port for IP network communications, and is compatible with modules that send events to selected public switched telephone network (PSTN), IP network, or cellular network destinations through four programmable route groups.
With the B5512, you can monitor doors, windows, and motion within areas like showrooms or those that hold inventory. Each user can have a personalized passcode, a wireless keyfob, and a credential to control the system.

Use programmable authority levels with restricted privileges to provide service, security, and cleaning personnel with full or limited access. Use the three programmable outputs (expandable up to 43) to turn on lights or lock and unlock doors. Users can:

- Turn on the system to secure the stockroom while you conduct daily business.
- Perform tests to ensure your system is working properly.
- Set your system to alarm immediately if a door opens.
- Activate the Watch feature so a tone sounds whenever a customer enters.
- Set a schedule for your system to automatically turn on at closing time.
- Use wireless security options to customize your system.

Central monitoring stations provide 24-hour system monitoring with access to vital services. Professional security personnel can test the system, monitor system activity, and alert the police, fire department, or other emergency response teams if necessary.

Functions

Programmable outputs
- 500 mA not to exceed 1.3 A total current for a burglary system, or not to exceed 1.0 A total current for household fire applications
- 800 mA auxiliary power at 12 VDC
- Four alarm-output patterns
- Programmable bell test
- Three programmable outputs; one high current using a relay, and two trigger outputs
- Output A contact rating is 3 Amps

System response
- High-performance micro-controller provides industry leading system response
- 20 custom point indexes
- Selectable point response time
- Cross point capability
- Fire alarm verification
- Dangerous gas indicator includes carbon monoxide (NFPA 720)
- Watch mode
- Scheduled events (SKEDs) perform several functions, such as turn on (arm) the system, turn off (disarm) the system, bypass and unbypass points, and control relays

User interface
- Supervision of up to 8 keypads
- Custom keypad text is fully programmable through RPS
- Full function menu including custom functions
- Authority by area and 32 character name for each user
- 14 custom authority levels control user's authority to change, add, or delete passcodes to disarm or bypass areas; and to start system tests
- Programmable primary and secondary language by user and keypad; select from English, Spanish, French, and Portuguese

Area configurations
Area programming offers a wide selection of different system configurations. Make area arming conditional on other areas (master or associate), if desired. You can configure any area for perimeter and interior arming, not requiring a separate area for this function. Link multiple areas to a shared area which is automatically controlled (hallway or lobby). For higher security applications, the Area Re-Arm feature guarantees that areas are always rearmed, and are disarmed for no longer than a specific, configurable, amount of time (for example, service time).

Custom functions
For added convenience, the installer can program custom functions that allow customers to complete complex tasks with one simple action. For example, a custom function can bypass a group of points and arm the system, allowing the user to perform these functions with one easy command. Users can activate custom functions with a keypad, keyfob, token, or card, or the control panel can activate a function in reaction to a faulted point, or automatically through a scheduled event (SKED).

Passcode security
- Two-man rule. Requires two people with two unique passcodes to be present at the time of opening.
- Early ambush. Allows users to verify that the facility is safe by requiring two passcodes. The control panel sends a duress event if the user does not enter the passcode a second time after inspecting the premises.
- Dual authentication. Requires two forms of identification before processing certain system commands, including turning off the system and opening doors. A standard system user must have a passcode, a credential (token or card), and appropriate command authority permissions assigned in the door and keypad's assigned area.

Easy exit control
The control panel changes from one On (armed) state to another without turning off (disarming) the system. For example, if you change the state from Part On (Perimeter Arm) to All On (Master Arm), the control panel complies and reports the change. Easy Exit Control reduces the number of keystrokes, simplifying system operation.

Programmable passcode-controlled menu list
Passcode-controlled shortcuts provide users only with the options and information pertinent to them, simplifying system operation.

Flexible control
The system provides the flexibility to choose added convenience or high security. For example, you can restrict to a keypad's immediate local area turning on (arming) and turning off (disarming) the system with a passcode, even if the user has access to other areas. This is particularly useful for high security areas, where a user may have access to the area, but would prefer to only turn off (disarm) the area individually rather than with the rest of the system. Another option is to program the system to turn off all areas the user can access from any keypad.

Monitor Delay/Delayed Response
Create a special point index that delays the reaction of a point for a specified time (up to 1 hour in minutes and seconds). This delay provides time for the specified condition to reset before activating any annunciation. The system can annunciate locally and send a report, if desired. When the system is armed,

the point can respond like a normal point – providing dual functionality. Use this feature to ensure that perimeter doors have not been propped open, or to monitor critical areas such as computer rooms and safes, for example.

System users
The system supports up to 50 users. Each user can have a personalized passcode, a wireless keyfob, and a credential to control the system. User passcodes contain three to six digits. You can assign passcodes to one of 14 customized authority levels in each area that can be restricted to operate only during certain times. Programmable primary and secondary language by user and keypad; select from English, Spanish, French, and Portuguese.

Communication formats
The control panel prioritizes and sends reports to four route groups. Network communication uses the Modem4 communication format, whereas phone communication uses Contact ID or Modem4 communications formats. Each group has a programmable primary and backup destination.
The control panel provides flexible communications for most central stations with reporting capabilities such as:
- Individual point numbers
- Opening or closing reports by user and area number
- Remote programming attempts
- Diagnostic reports

IP communication
The control panel uses on-board Ethernet (IP) connection (the on-board Ethernet port is excluded on “E” versions) to communicate with a Conettix D6600 or a Conettix D6100IPv6 Communications Receiver/ Gateway.
The control panel can optionally communicate with a Conettix D6600 or a Conettix D6100IPv6 Communications Receiver/Gateway using a B426 Conettix Ethernet Communication Module or a Conettix Plug-in Cellular Communicator (B440/B441/ B442/B443).
Using Conettix IP communication offers a secure path that includes anti-replay/anti-substitution features and provides enhanced security with AES 256-bit encryption (using Cipher Block Chaining (CBC)).
The control panel supports Domain Name System (DNS) for both remote programming and central station communication. DNS provides ease of use, eliminating the need to use static IP addresses as your reporting destination, and accommodates a simple solution for central station disaster recovery. IP Setup is available via the keypad Installer menu and the remote programming software, eliminating the need to use complicated internet programming tools such as ARP and Telnet. The control panel supports both IPv6 and IPv4 networks.

For more information on the enhanced communications capabilities, refer to *RPS Help* or the control panel's *Program Entry Guide*.

Communication paths
The control panel accommodates up to four separate phone and four separate network paths to the central station receiver. When resetting alarms or turning a system on and off, the user is identified by name and number.

Personal notification
The control panel can send text messages and emails for personal notification over Ethernet or using a cellular communicator. You can configure up to 16 destinations using a combination of cellular phone numbers and email addresses. The control panel sends notifications in the user’s programmed primary language.

Firmware updates
The system allows remote firmware updates through Remote Programming Software (RPS) using the RPS Firmware Update Wizard. The Firmware Update Wizard uses the on-board USB connection or the on-board Ethernet (IP) connection (the on-board Ethernet port is excluded on “E” versions) to transmit firmware updates.
The control panel can optionally receive firmware updates from RPS using a B426 Conettix Ethernet Communication Module or a Conettix Plug-in Cellular Communicator (B440/B441/B442/B443). **Notice!**
Cellular firmware updates require more time than Ethernet updates and carrier data rates apply.
- Control panel updates. Remotely update the control panel firmware for easy feature enhancements without replacing ROM chips.
- Module update support. Remotely update the firmware on connected SDI2 modules for easy feature enhancements without visiting each individual module.

A wide variety of input options
Each point:
- Accommodates normally-open (NO) and normally-closed (NC) devices with end-of-line (EOL) resistor supervision.
- Accepts programming for fire, gas, fire supervisory, or intrusion applications.
- Supports hardwired and wireless devices.
- Supports IP cameras by Bosch as point sources.

Security and fire detection
The control panel provides eight on-board points, and up to 40 additional off-board points (depending on model and expansion interfaces). You can program individual points to monitor some types of burglar alarms, fire alarms, and supervision devices.

Event log
The event log stores local and reported events. The event log includes information such as time, date, event, area, point, and user. View the event log from a

keypad or use RPS to remotely retrieve event information. When the event log reaches a programmed threshold of stored events, it can send an optional report to a receiver.
The event log stores up to 255 local and reported events.

Scheduled events (SKEDs)
The internal clock and calendar start individually scheduled events (SKEDs). SKEDs perform functions such as turn on or off, relay control, or point bypassing.
The control panel offers:

- Five scheduled events with up to 25 different functions
- Four opening windows and four closing windows
- Four user windows
- Day-of-week, date-of-month, or holiday only schedules
- One holiday schedule of 366 days (leap year)

Programming
Installers can perform limited programming on-site with a keypad (critical parameters; such as account IDs, central station and RPS IP addresses and phone numbers, reporting formats, and more). They can also do full programming on-site or remotely (attended or unattended) with RPS. A programmable system passcode prevents unauthorized remote programming.

Diagnostics
Keypads and RPS offer diagnostic help for monitoring and troubleshooting. The diagnostics features allow you to view the status of the on-board Ethernet connection, plug-in communicators, and SDI2 devices, including inputs, outputs, and RF. The features provide the status of the control panel and its connected devices, such as firmware version, power, and missing conditions. View the status of each area. Diagnostics also include connection data for connected wireless and Ethernet devices.

Certifications and approvals

Region	
US	UL 365 - Police Station Connected Burglar Alarm Units and Systems
	UL 609 - Local Burglar Alarm Units and Systems
	UL 636 - Holdup Alarm Units and Systems
	UL 985 - Household Fire Warning System Units
	UL 1023 - Household Burglar Alarm System Units
	UL 1076 - Proprietary Burglar Alarm Units and Systems
	UL 1610 -Central Station Burglar Alarm Units
	FCC Part 15 Class B
	CP-01-2010-Control Panel Standard - Features for False Alarm Reduction
Canada	CAN/ULC S303 - Local Burglar Alarm Units and Systems
	CAN/ULC S304 - Signal Receiving Centre and Premise Alarm Control Units
	CAN/ULC S545, Residential Fire Warning System Control Units
	ULC-ORD C1023 - Household Burglar Alarm System Units
	ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems
	CP-01-2010-Control Panel Standard - Features for False Alarm Reduction

Region	Certification	
USA	UL	20130806-S1871
	CSFM	see our website
Canada	ULC	20130806-S1871

Installation/configuration notes

Compatible products

Keypads

B942/B942W Touch Screen Keypad
B930 ATM Style Alphanumeric Keypad (SDI2)
B921C Two-line Capacitive Keypad
B920 Two-line Alphanumeric Keypad (SDI2)
B915 Basic Keypad

Transformers

CX4010 Plug-in Transformer (18 VAC 22 VA 60 Hz)

ICP-TR1822-CAN Plug-in Transformer (110 VAC primary, 18 VAC 22 VA secondary)

Enclosures

B10 Medium Control Panel Enclosure

B11 Small Control Panel Enclosure

B12 Mounting Plate for D8103 Enclosure

D2203 Enclosure

D8103 Universal Enclosure (requires a B12)

D8108A Attack Resistant Enclosure (requires a B12)

D8109 Fire Enclosure (requires a B12)

Accessories

B56 B56 Keypad Surface Mount Box

B96 Keypad Trim Bezel

B99 USB Direct Connect Cable

B501-10 Interconnect wiring cables (pack of 10)

Detectors

D285/TH Photoelectric Smoke Detector Heads

FCC-380 Carbon Monoxide Detector

Bosch conventional detectors, including Professional Series, Blue Line Gen2, Blue Line, Classic Line, Commercial Line, and Ceiling Mount motion detectors, as well as glass break, seismic, request-to-exit, photoelectric, heat, and smoke detectors.

Modules

B201 2-wire Powered Loop Module

B208 Octo-input Module

B308 Octo-output Module

B426 Conettix Ethernet Communication Module

B430 Plug-in Telephone Communicator

B440 Conettix Plug-in Cellular Communicator

B441 Conettix Plug-in Cellular Communicator

B442 Conettix Plug-in Cellular Communicator (Latin America)

B443 Conettix Plug-in Cellular Communicator (Canada)

B450 Conettix Plug-in Communicator Interface

B520 Auxiliary Power Supply Module

B810 wireless receiver (RADION)

B820 SDI2 Inovonics Interface Module

D113 Battery Lead Supervision Module

D125B Dual Class B Initiating Module

D129 Class A Initiating Module

D130 Auxiliary Relay Module

D132A Smoke Detector Reversing Relay Module

D133/D134 Relay Module

D185 Reverse Polarity Signaling Module

D192G Class “B”, Style Y Bell Circuit Supervision

Programming

Remote Programming Software (RPS or RPS-LITE) v5.17 or higher

Conettix receivers

(Managed and configured with Conettix D6200 Programming/ Administration Software v2.00)

Conettix D6600 Communications Receiver/Gateway (with only D6641 line cards installed) with CPU version 01.10.00

Conettix D6100IPv6 Communications Receiver/Gateway with CPU version 61.10.00

Conettix D6100i Communications Receiver/Gateway with CPU version 61.10.00

RADION wireless from Bosch

B810 wireless receiver (RADION)

RFBT-A bill trap

RFDL-11-A TriTech motion detector

RFDW-RM-A recessed mount door/window contact

RFDW-SM-A surface mount door/window contact

RFGB-A glass break detector

RFIN-A inertia detector

RFKF-A two-button keyfob

RFKF-FB-A four-button keyfob

RFKF-TB-A two-button keyfob

RFPB-SB-A single-button panic

RFPB-TB-A two-button panic

RFRP-A repeater

RFSM-A smoke detector

RFPR-12-A PIR motion detector

RFPR-C12-A PIR curtain motion detector

RFUN-A universal transmitter

Inovonics Wireless

B820 SDI2 Inovonics Interface Module

ENKIT-SDI2 SDI2 Inovonics Interface and Receiver Kit. Includes B820 and EN4200

EN1210 Universal Transmitter (Single-input)

EN1210EOL Universal Transmitter with EOL Resistor

EN1210W Door-Window Transmitter with Reed Switch

EN1215EOL Universal Transmitter with Wall Tamper, Reed Switch, and EOL Resistor

EN1223D Water-resistant Pendant Transmitter (Double-button)

EN1223S Water-resistant Pendant Transmitter (Single-button)

EN1224-ON Multiple-Condition Pendant Transmitter

EN1233D Necklace Pendant Transmitter (Double-button)

EN1233S Necklace Pendant Transmitter (Single-button)

EN1235D Beltclip Pendant Transmitter (Double-button)

EN1235DF Fixed-location Transmitter (Double-button)

EN1235S Beltclip Pendant Transmitter (Single-button)

EN1235SF Fixed-location Transmitter (Single-button)

EN1247 Glass-break Detector Transmitter

EN1249 Bill Trap Transmitter

EN1242 Smoke Detector Transmitter

EN1260 Wall Mount Motion Detector

EN1261HT High Traffic Motion Detector

EN1262 Motion Detector with Pet Immunity

EN1265 360° Ceiling Mount Motion Detector

EN4200 Serial Receiver

EN5040-T High Power Repeater with Transformer

Parts included

The B5512 includes the following:

Quant.	Component
1	B5512 board
1	Literature pack • UL Installation Instructions • Owner's Manual • Release Notes • SIA Quick Reference Guide
1	Literature CD containing product literature

The B5512E is available only in kits. Refer to *Ordering information*.
Each B5512E control panel kit includes the following:

Quant.	Component
1	B5512E board (without on-board Ethernet port)
1	Plug-in communicator (telephone or cellular, depending on the kit)
1	Plug-in Transformer (18 VAC 22 VA 60 Hz)
1	Control panel enclosure (kit dependent)
1	Literature pack • UL Installation Guide • Owner's Manual • Release Notes • SIA Quick Reference Guide
1	Literature CD containing product literature

Technical specifications

Communications

Ethernet	One on-board Ethernet connector*

Environmental considerations

Relative humidity	5% to 93% at +90°F (+32°C), non-condensing
Temperature (operating)	+32°F to +122°F (0°C to +49°C)

Number of...

Areas	4
Custom functions	4
Events	Up to 255
Passcode users	50, plus 1 Installer passcode
Points	48 (8 on-board, up to 40 off-board)
Programmable outputs	43 (3 on-board, up to 40 off-board)
RF points	40
SKEDs	5

Power Requirements

Current draw (maximum)	Idle 125 mA; Alarm 155 mA
Output (alarm)	1.3 A at 12 VDC
Output (auxiliary, continuous power, and switched auxiliary combined)	800 mA at 12 VDC nominal
Voltage (operating):	12 VDC nominal
Voltage (AC)	CX4010 Plug-in Transformer (18 VAC 22 VA 60 Hz) or ICP-TR1822-CAN Plug-in Transformer (110 VAC primary, 18 VAC 22 VA secondary)

*The "E" control panels do not include an on-board Ethernet connector.

Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Ordering information

B5512/B5512E
The B5512 is available individually or in kits. The B5512E is available only in kits.
For kits, refer to *Special (B Series Kits)* on the Documents tab of the control panel's Product Page at us.boschsecurity.com.
Order number **B5512**

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